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| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING IF APPR | DATE OPRIATE |
| /EMJ/ | 5,413,477 | 05/09/1995 | Moreland | T | | | |
| _ A | 5,572,938 | 11/12/1996 | Leger | 1 | | i | |
| 1 | 6,206,685 | 03/27/2001 | Zamansky et al. | 1) | | | |
| 1 | 6,280,695 | 08/28/2001 | Lissianski et al. | \// | | | |
| Y | 6,471,506 | 10/29/2002 | Zamansky et al. | 1 | | | |
| | US 2001/0041157 A1 | 11/15/2001 | Spokoyny | 1 | | | |
| | US 2002/0029690 A1 | 03/14/2002 | Ridgeway et al. | ii l | | | |
| | US 2002/0102189 A1 | 08/01/2002 | Madden et al. | Ti I | | Ì | |
| | US 2002/0166484 A1 | 11/14/2002 | Zamansky et al. | 1 | | | , |
| | US 2002/0170431 A1 | 11/21/2002 | Chang et al. | 1 | \ | | |
| | US 2003/0009932 A1 | 01/16/2003 | Kobayashi et al. | | <u> </u> | | _ |
| | US 2003/0079606 A1 | 05/01/2003 | Katz | <u>-</u> | <u> </u> | | |
| | US 2003/0091490 A1 | 05/15/2003 | Nolan et al. | - - | | | |
| | US 2003/0091948 A1 | 05/15/2003 | Bool, III et al. | | | | |
| | US 2003/0099912 A1 | 05/29/2003 | Kobayashi et al. | : | 1 | | |
| | US 2003/0099913 A1 | 05/29/2003 | Kobayashi et al. | | \ | | |
| | US 2003/0104328 A1 | 06/05/2003 | Kobayashi et al. | - ; | 1 | | |
| | US 2003/0104937 A1 | 06/05/2003 | Sinha | 1 | | | |
| | US 2003/0108470 A1 | 06/12/2003 | Spencer et al. | | | <u> </u> | |
| | US 2003/0108833 A1 | 06/12/2003 | Kobayashi et al. | i | | | |
| | US 2003/0110994 A1 | 06/19/2003 | Lissianski et al. | | | | |
| | US 2003/0143128 A1 | 07/31/2003 | Lanier et al. | | | | |
| | US 2003/0147793 A1 | 08/07/2003 | Breen et al. | i | | | |
| /EMJ/ | US 2003/0154858 A1 | 08/21/2003 | Kleut et al. | | | | |
| | | FC | REIGN PATENT DOCUMENTS | | | L | |
| | | | | | | TRANS | LATION |
| | DOCUMENT | DATE | COUNTRY | CLASS | SUBCLASS | YES | NO |
| | | | | | | | |
| | OTHER DO | CUMENTS (| including Author, Title, Date, Per | inent pages, | etc.) | | |
| /EMJ/ | "Kinetic Models For Predi February 19-20, 2003, pp. | cting the Beha | vior Of Mercury In Coal-Fired Power Plant | s", C. Senior, et a | l., ACERC An | nual Conf | ference, |
| | "Evaluating The Effects of | Low-NOx Re | etrofits on Carbon In Ash Levels ", K.A. Da | vis, et al. Presente | d at the Mega | Symposiu | ım: |
| | "Behavior of Mercury In | of Utility Air P | Pollutant Control Symposium, Atlanta, GA, Control Devices on Coal-Fired Utility Boiler | August 1999, pp. | 1-15. | od For Day | |
| | | | of Fuel Quality and Operations, Engineering | | | | |
| | 28-November 2, 2001, pp. | 1-17. | | | | | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | imulations", Stefan P. Domino et al., pp. 1- | | ••• • • • | | |
| /EMJ/ | Reaction Engineering International brochure "Furnace Performance", Reaction Engineering International", printed from REI website on August 22, 2003, pp. 1-2. | | | | | | |
| Examiner | /Edward M. Johnson | <u>1/ (09/16/20</u> | 007) Date Considered | | | | |

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

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| | PRENTS TRACE | Janua | ry 6, 2004 175 | 54 | | | |
| | d I NA | l | J.S. PATENT DOCUMENTS | | | | |
| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | | DATE |
| /EMJ/ | 6,604,474 | 08/12/2003 | Zamansky et al. | Τ, | 1 | ı | |
| Ţ, | 4,196,173 | 04/01/1980 | deJong et al. | +\ | | ļ | |
| | 4,233,274 | 11/11/1980 | Allgulin | + \ | | - | |
| | 4,273,747 | 06/16/1981 | Rasmussen | + | | | |
| | 4,814,152 | 03/21/1989 | Yan | / | | | |
| | 4,843,102 | 06/27/1989 | Horton | \ | | | |
| | 5,141,724 | 08/25/1992 | Audeh et al. | | | | |
| | 5,409,522 | 04/25/1995 | Durham et al. | | \ | | |
| | 5,695,726 | 12/09/1997 | Lerner | | <u> </u> | L | |
| | 5,787,823 | 08/04/1998 | Knowles | | \ | | |
| | 6,027,551 | 02/22/2000 | Hwang et al. | | \. | | |
| | 6,451,094 | 09/17/2002 | Chang et al. | 1 | \ | | |
| | 6,521,021 | 02/18/2003 | | | | | |
| | 6,558,454 | 05/06/2003 | | | 1 | | |
| | 6,595,147 | 07/22/2003 | | | | | |
| | 6,719,828 | 04/13/2004 | Lovell et al. | <u> </u> | | | |
| | US 2002/0095866 | 07/25/2002 | | | | | |
| | US 2003/0005634 | | | 1 | | | |
| -++ | US 2003/0185718 | L., . | | <u> </u> | - | | |
| /EMJ/ | US 2004/0011057 | 01/22/2004 | Huber | | | | |
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| | OTHER DOC | UMENTS (| including Author, Title, Date, Pertinen | t pages, | etc.) | | |
| /EMJ/ | "Comparison of Photoacou 1-2 (1997). | stic Methods | To Loss-On-Ignition and Foam Index Tests In Fly | Ash Evalu | ations", Rober | t Novack, | et al., pp |
| | "Combustion Optimization Using MPV Systems", Mark Khesin, et al., Pittsburgh Coal Conference, September 2000, pp. 1-4. | | | | | | |
| | "Reburn Systems", GE Por | wer Systems, A | Air Quality Systems & Services, pp. 1-3, GEA-13 | 207 (2001). | | | |
| / <u>-</u> | | | | | | | |
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| /EMJ/ /EMJ/ Examiner | OTHER DOC "Comparison of Photoacoult-2 (1997). "Combustion Optimization" "Reburn Systems", GE Por "FlamemastEER™ Low N "NO _x Control for Gas Turb //Edward M. Johnson | 05/06/2003 07/22/2003 04/13/2004 07/25/2002 01/09/2003 10/02/2004 01/22/2004 DATE CUMENTS (Institute of the control of | COUNTRY Including Author, Title, Date, Pertinen To Loss-On-Ignition and Foam Index Tests In Fly Systems", Mark Khesin, et al., Pittsburgh Coal Coair Quality Systems & Services, pp. 1-3, GEA-13 GEA-13132, p. 1, printed December 2003. ver Systems, pp. 1-2, printed December 17, 2003. | t pages, Ash Evalu- Inference, S. 207 (2001). | etc.) ations", Rober eptember 2000 | YES t Novack, | et |

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| 2 - 1 2 minted December 17, 2003 | |
| "CoalegisTM" GF Power Systems, pp. 1-2, printed December 17, 2003. | |
| "Coal Balancing & Blending", GE Power Systems, pp. 1-2, printed December 17, 2003. | |
| WNO Reduction" Hamon pp. 1-2 December 8, 2003. | |
| "Selective Catalytic Reduction (SCR)", Hamon, pp. 1-2, printed December 8, 2003. "Selective Non-Catalytic Reduction (SNCR)", Hamon, pp. 1-3, printed December 8, 2003. | |
| | |
| Tochnology on Mercury Speciation , reciev, in ct al., what a cost, pr | |
| "Evaluation of the Effect of SCR NOX Control Technology on Mercury Specialisms," pp. 89-165, Fuel Processin John H. Pavlish et al., "Status Review Of Mercury Control Options For Coal-Fired Power Plants", pp. 89-165, Fuel Processin | 3 |
| Technology 82 (2003). Thomas D. Brown et al., "Mercury Measurement And Its Control: What We Know, Have Learned, and Need To Further Investigation pp. 628-640. Volume 49, June 1999. | stigate", |
| Thomas D. Brown et al., "Mercury Measurement Aid its Control." Journal of the Air & Waste Management Association, pp. 628-640, Volume 49, June 1999. Journal of the Air & Waste Management Association, pp. 628-640, Volume 49, June 1999. | ED 410 |
| Journal of the Air & Waste Management Association, pp. 628-640, Volume 49, June 1993. Blair A. Folsom et al, "Combustion Modification – An Economic Alternative for Boiler NO _x Control", GE Power Systems, C | LR-4174 |
| pp. 1-8, April 2001. R. Sehgal et al., "Intelligent Optimization of Coal Burning to Meet Demanding Power Loads, Emission Requirements, and C | st |
| | |
| The Washington Post, "Limiting Mercury Pollution is Pocus of Hot Debate", pp. 7-5, 14-4-4 | |
| *Evaminer //Edward M. Johnson/ (09/16/2007) Date Considered | 11-4: |
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| /EMJ/ | 6,878,358 | 04/2005 | Vosteen et al. | | | Ī | | |
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